	Туре	L#	Hits	earch Text	DBs	Time Stamp	Comments
1	BRS	L1	156	insert\$ with data near2 byte and 'data word'	,		
2	BRS	L2	0	1 and cycle and immediate adj word	1 '		
3	BRS	L3	107	1 and cycle	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
4	BRS	L4	40	3 and alignment\$3	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
5	BRS	L5	2	4 and preceding adj cycle	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
6	BRS	L6	2	4 and preceding near3 cycle	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		

	Туре	L#	Hits	Search Text	DBs	Time Stamp	Comments
7	BRS	L 7	40	4 and select\$5	1 '		
8	BRS	L8	37	7 and shift\$5	1	•	
9	BRS	L9	37	8 and register and control	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
10	BRS	L10	37	9 and point\$3	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
11	BRS	L11	23	10 and mask	US- PGPUB; USPAT; EPO; JPO; DERWEN T;		
12	BRS	L12	28	10 and mask\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T;		

	Туре	L#	Hits	earch T xt	DBs	Time tamp	Comments
13	BRS	L13	1	10 and insert\$5 near3 point\$5	1 7		
14	BRS	L14	37	10 and insert\$5	1 '		
15	BRS	L15	28	12 and insert\$5	1 '	•	
16	BRS	L16	1	15 and re-align\$5	1 1		
17	BRS	L17	14	15 and concatenat\$5	1 '		
18	IS&R	L18	302	(712/300).CCLS.	1 7		

	Туре	L #	Hits	Search Text	DBs	Time Stamp	Comments
19	IS&R	L19	0	("17and18").PN.	1		
20	IS&R	L20	0	("18andinsert\$5").PN.	· · •		
21	BRS	L21	34	18 and data near3 insert\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
22	BRS	L22	22	21 and alignment\$3	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
23	BRS	L23	31	21 and select\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		
2	BRS	L24	22	22 and select\$5			

	Туре	L#	Hits	Search Text	DBs	Time Stamp	Comments
25	BRS	L25	28	23 and shift\$5	1 7		
26	BRS	L26	28	25 and shift\$5	'		
27	BRS	L27	23	26 and register and control	1 7	2004/12/10 11:53	
28	BRS	L28	20	27 and point\$3	•		
29	BRS	L29	17	28 and mask\$5		2004/12/10 11:54	*
30	BRS	L30	17	29 and point\$3		2004/12/10 11:54	

	Туре	L#	Hits	Search Text	DBs	Time Stamp	Comments
31	BRS	L31	17	30 and insert\$5	1 1		
32	BRS	L32	4	31 and concatenat\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T; IBM_TDB		

Results (page 1): data and insertion and insert and cycle and register and select and byte and "data word"... Page 1 o



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Data and memory optimization techniques for embedded systems.

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. Kjeldsb April 2001 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 6 Issue 2

Full text available: xif(339.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present a survey of the state-of-the-art techniques used in performing data and memory-related optimizal systems. The optimizations are targeted directly or indirectly at the memory subsystem, and impact one or mimportant cost metrics: area, performance, and power dissipation of the resulting implementation. We first exindependent optimizations in the form of code transoformations. We next cover a broad spectrum of optimizations.

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, code transformation, data optimization, high-level synthesis, memory architecture customization, memory power dissipation, register fil survey

² Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 4

Full text available: pdf(6.32 MB)

Additional Information: full citation, abstract, references, citings, index terms, re

In the last three decades a large number of compiler transformations for optimizing programs have been impled optimizations for uniprocessors reduce the number of instructions executed by the program using transformat analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance supers parallel processors maximize parallelism and memory locality with transformations that rely on tracking the p

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscala vectorization

³ The evolution of the Sperry Univac 1100 series: a history, analysis, and projection

B. R. Borgerson, M. L. Hanson, P. A. Hartley

January 1978 Communications of the ACM, Volume 21 Issue 1

Full text available: pdf(1.89 MB)

Additional Information: full citation, abstract, citings, index terms

The 1100 series systems are Sperry Univac's large-scale mainframe computer systems. Beginning with the 11 series has progressed through a succession of eight compatible computer models to the latest system, the 11 1977. The 1100 series hardware architecture Is based on a 36-bit word, ones complement structure which ob from storage and one from a high-speed register, or two operands from high-speed registers. The 1100 Oper

Keyw rds: 1100 computer series, computer architecture, data management systems, end user facilities, exe

h c ge cf c

Results (page 1): data and insertion and insert and cycle and register and select and byte and "data word"... Page 2 o software, multiprocessing, multiprogramming, operating system, programming languages

Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Full text available: Repetition of the point of the point

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborativ

Full text available: modf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time dia to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an e at the University of Waterloo. However, these diagrams are often very complex and do not provide the user w overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun

6 ABLE: A LISP-based layout modeling language with user-definable procedural models for storage/logic Gary B. Goates, Suhas S. Patil

Proceedings of the 18th conference on Design automation June 1981

Full text available: 📆 pdf(692.32 KB)

Additional Information: full citation, abstract, references, index terms

ABLE, an array-based linguistic editor, is a layout modeling language for storage/logic arrays (SLA's) that is b programming language. This paper describes ABLE's design, presents an ABLE layout program, and evaluates SLA-based circuit design. ABLE embodies a linguistic approach to computer-aided design (CAD) for very large (VLSI) circuits; digital system designers can represent SLA-based integrated circuits as relatively abstract and

The family of concurrent logic programming languages

Ehud Shapiro

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Full text available: mbdf(9.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that of both known and novel concurrent programming techniques. Being logic programming languages, they preserv the abstract logic programming model, including the logical reading of programs and computations, the conve data structures with logical terms and manipulating them using unification, and the amenability to metaprogr

8 · System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2

Full text available: pdf(385.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems hardware platform and software layers. We consider the three major constituents of hardware that consume e computation, communication, and storage units, and we review methods of reducing their energy consumption models for analyzing the energy cost of software, and methods for energy-efficient software design and comp

CASDAL: CASSM's DAta Language

Stanley Y. W. Su, Ahmed Emam

March 1978 ACM Transacti ns n Database Systems (TODS), Volume 3 Issue 1

Full text available: pdf(2.72 MB)

Additional Information: full citation, abstract, references, citings, index terms

CASDAL is a high level data language designed and implemented for the database machine CASSM. The langu manipulation and maintenance of a database using an unnormalized (hierarchically structured) relational data facilities to define, modify, and maintain the data model definition. The uniqueness of CASDAL lies in its powe operations in terms of several new language constructs and its concepts of tagging or marking tuples and of m Results (page 1): data and insertion and insert and cycle and register and select and byte and "data word"... Page 3 o

Keywords: associative memory, database, nonprocedural language, query language, relational model

10 Architecture of the IBM system/370

Richard P. Case, Andris Padegs

January 1978 C mmunications f the ACM, Volume 21 Issue 1

Full text available: pdf(2.78 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the design considerations for the architectural extensions that distinguish System/370 fr comments on some experiences with the original objectives for System/360 and on the efforts to achieve the reasons and objectives for extending the architecture. It covers virtual storage, program control, data-manipu timing facilities, multiprocessing, debugging and monitoring, error handling, and input/output operations. ...

Keywords: architecture, computer systems, error handling, instruction sets, virtual storage

11 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue SI

Full text available: pdf(16.07 MB)

Additional Information: full citation

12 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

ACM Computing Surveys (CSUR), Volume 26 Issue 1 March 1994

Full text available: pdf(8.01 MB)

Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algopresents five techniques that have been widely used in the design of randomized algorithms. These technique 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message rou neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic alg quicksort, sequential algorithms, transitive tournaments, universal hashing

13 A language-based approach to protocol implementation

Mark B. Abbott, Larry L. Peterson

February 1993 IEEE/ACM Transactions on Networking (TON), Volume 1 Issue 1

Full text available: pdf(1.88 MB)

Additional Information: full citation, references, citings, index terms, review

14 A Video Compression Case Study on a Reconfigurable VLIW Architecture

D. Rizzo, O. Colavin

Proceedings of the conference on Design, automation and test in Europe March 2002

Full text available: pdf(347.52 KB) Publisher Site Additional Information: full citation, abstract

In this paper, we investigate the benefits of a flexible, application-specific instruction set by adding a run-time Functional Unit (RFU) to a VLIWprocessor. Preliminary results on the motion estimationstage in an MPEG4 vid presented. Withthe RFU modeled at functional level and under realisticassumptions on execution latency, tech andreconfiguration penalty, we explore different RFUinstructions at fine-grain (instruction-level) and coarse-g

15

Experience with a software-defined machine architecture

h g e cf c С

Results (page 1): data and insertion and insert and cycle and register and select and byte and "data word"... Page 4 o

David W. Wall

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 14 Issue 3 May 1992

Full text available: pdf(2.86 MB)

Additional Information: full citation, abstract, references, citings, index terms, re-

We have built a system in which the compiler back end and the linker work together to present an abstract m considerably higher level than the actual machine. The intermediate language translated by the back end is the all high-level compilers and is also the only assembly language generally available. This lets us do intermodul which would be harder if some of the code in the program had come from a traditional assembler, out of sigh

Keywords: RISC, graph coloring, intermediate language, interprocedural, optimization, pipeline scheduling, p allocation, register windows

16 Code optimization - I: Optimizing memory accesses for spatial computation

Mihai Budiu, Seth C. Goldstein

March 2003 Proceedings of the international symposium on Code generation and optimization: feed runtime optimization

Full text available: pdf(1.06 MB) Publisher Site

Additional Information: full citation, abstract, references, index terms

In this paper we present the internal representation and optimizations used by the CASH compiler for improvi parallelism of pointer-based programs. CASH uses an SSA-based representation for memory, which compactly control-flow-and dependence information. In CASH, memory optimization is a four-step process: (1) first an in representation of memory dependences is built; (2) next, unnecessary memory dependences are removed us

17 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Full text available: 📆 odf(6.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, re

When distributed systems first appeared, they were programmed in traditional sequential languages, usually few library procedures for sending and receiving messages. As distributed applications became more common sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing languages specifically for implementing distributed applications. These languages and their history, their unde

18 Measurement and evaluation of the MIPS architecture and processor

Thomas R. Gross, John L. Hennessy, Steven A. Przybylski, Christopher Rowen

August 1988 ACM Transactions on Computer Systems (TOCS), Volume 6 Issue 3

Full text available: pdf(2.30 MB)

Additional Information: full citation, abstract, references, citings, index terms, re-

MIPS is a 32-bit processor architecture that has been implemented as an nMOS VLSI chip. The instruction set based. Close coupling with compilers and efficient use of the instruction set by compiled programs were goals The MIPS architecture requires that the software implement some constraints in the design that are normally hardware implementation. This paper presents experimental results on the effectiveness of this processor ...

19 A language-based approach to protocol implementation

Mark B. Abbott, Larry L. Peterson

October 1992 ACM SIGCOMM Computer Communication Review, Conference proceedings on Commun architectures & protocols, Volume 22 Issue 4

Full text available: mbdf(1.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

Morpheus is special-purpose programming language that facilitates the efficient implementation of communic Protocols are divided into three categories, called shapes, so that they can inherit code and data structures ba the programmer implements a particular protocol by refining the inherited structure. Morpheus optimization t layer overhead on time-critical operations to a few assembler instructions even though the ...

20 Practical data breakpoints: design and implementation

Robert Wahbe, Steven Lucco, Susan L. Graham

ACM SIGPLAN Notices, Pr ceedings of the ACM SIGPLAN 1993 conference on Programm June 1993

Results (page 1): data and insertion and insert and cycle and register and select and byte and "data word"... Page 5 o

design and implementation, Volume 28 Issue 6

Full text available: pdf(1.37 MB)

Additional Information: full citation, abstract, references, citings, index terms

A data breakpoint associates debugging actions with programmer-specified conditions on the memory state o program. Data breakpoints provide a means for discovering program bugs that are tedious or impossible to is breakpoints alone. In practice, programmers rarely use data breakpoints, because they are either unimpleme slow in available debugging software. In this paper, we present the design and implementation of a practical

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